Roc'd PCT/PTO 21 SEP 2004



10/507275

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/507,275

40

105

75

DATE: 09/21/2004

TIME: 09:32:34

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      3 <110> APPLICANT: Masai, Hisao
              Tamai, Katsuyuki
      5
              Medical and Biological Laboratories Co., Ltd.
              Japan Science and Technology Agency
              Ginkgo Biomedical Research Institute Co., Ltd.
      9 <120> TITLE OF INVENTION: Cdc7-ASK Kinase Complex, Substrates of the Kinase Complex,
              Specific Antibodies to the Substrates, and Screening Methods
     10
              Using the Same to Screen for Compounds Comprising Cdc7-ASK
     11
     12
              Kinase Inhititory Ability
     14 <130> FILE REFERENCE: 082368-001100US
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/507,275
C--> 17 <141> CURRENT FILING DATE: 2004-09-09
     19 <150> PRIOR APPLICATION NUMBER: JP 2002-067702
     20 <151> PRIOR FILING DATE: 2002-03-12
     22 <150> PRIOR APPLICATION NUMBER: WO PCT/JP03/02918
     23 <151> PRIOR FILING DATE: 2003-03-12
     25 <160> NUMBER OF SEQ ID NOS: 21
     27 <170> SOFTWARE: PatentIn Ver. 2.1
     29 <210> SEQ ID NO: 1
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     31 <212> TYPE: PRT
     32 <213> ORGANISM: Homo sapiens
     34 <400> SEQUENCE: 1
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RAW SEQUENCE LISTING DATE: 09/21/2004 PATENT APPLICATION: US/10/507,275 TIME: 09:32:34

Input Set : A:\82368-11.app

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8 Arg Arg Gly Asn Asp Pro Leu Thr Ser Ser Pro Gly Arg Ser Ser Arg														
9 10 15 20														
	150													
2 Arg Thr Asp Ala Leu Thr Ser Ser Pro Gly Arg Asp Leu Pro Pro Phe														
3 25 30 35 40														
	198													
6 Glu Asp Glu Ser Glu Gly Leu Leu Gly Thr Glu Gly Pro Leu Glu Glu														
7 45 50 55														
	246													
O Glu Glu Asp Gly Glu Glu Leu Ile Gly Asp Gly Met Glu Arg Asp Tyr														
1 60 65 70														
	294													
4 Arg Ala Ile Pro Glu Leu Asp Ala Tyr Glu Ala Glu Gly Leu Ala Leu														
5 75 80 . 85	242													
	342													
8 Asp Asp Glu Asp Val Glu Glu Leu Thr Ala Ser Arg Arg Glu Ala Ala _. 9 90 100														
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02 Asp Gly Pro Cys Gly Thr Val Thr Gly Ser Trp Pro Gly Leu Gly Ala	390													
03 105 110 cys dry fin var fin dry ser frip fro dry hed dry kra 120														
05 tgc gcc gtg ggc tcc tgt atg aca gcg atg agg agg acg agg agc gcc	438													
06 Cys Ala Val Gly Ser Cys Met Thr Ala Met Arg Arg Thr Arg Ser Ala														
07 125 130 135														
09 ctg ccc gca agc gcc gcc agt gga gcc ggc acg gag gac ggc gag gag	486													
10 Leu Pro Ala Ser Ala Ala Ser Gly Ala Gly Thr Glu Asp Gly Glu														
11 140 145 150														
13 gac gag cag atg att gag agc atc gag aac ctg gag gat ctc aaa ggc	534													
14 Asp Glu Gln Met Ile Glu Ser Ile Glu Asn Leu Glu Asp Leu Lys Gly														
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17 cac tot gtg cgc gag tgg gtg agc atg gcg ggc ccc cgg ctg gag atc	582													
18 His Ser Val Arg Glu Trp Val Ser Met Ala Gly Pro Arg Leu Glu Ile														
19 170 175 180														
21 cac cac cgc ttc aag aac ttc ctg cgc act cac gtc gac agc cac ggc	630													
22 His His Arg Phe Lys Asn Phe Leu Arg Thr His Val Asp Ser His Gly														
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27 205 210 215														
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RAW SEQUENCE LISTING DATE: 09/21/2004 PATENT APPLICATION: US/10/507,275 TIME: 09:32:34

Input Set : A:\82368-11.app

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						Pro											
			235		Lu		O_u	240				Lu	245	0111			
135																	
						gag											822
138	Asp	Glu	Ala	Ala	Leu	Glu	Val	Val	Leu	Ala	Met	Tyr	Pro	Lys	Tyr	Asp	
139		250					255					260					
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142	Arq	Ile	Thr	Asn	His	Ile	His	Val	Arq	Ile	Ser	His	Leu	Pro	Leu	Val	
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		gag	cta	cac	t.ca	ctg	agg	cag	cta	cat	cta	aac	cag	cta	atc	cac	918
						Leu											
147	914	014	Lea	****9	285		21129	0111	шец	290	пси	11011	0111	D Cu	295	**** 9	
		-~+	~~~	~+~			~~~				~+~	~+~		~~~		. ~ ~	966
						acc											900
	Thr	ser	GIY		vaı	Thr	ser	Cys		GIY	vaı	ьeu	Pro		ьeu	ser	•
151				300					305					310			
	_					tgc		_									1014
	Met	Val	Lys	Tyr	Asn	Cys	Asn	Lys	Cys	Asn	Phe	Val	Leu	Gly	Pro	Phe	
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157	tgc	cag	tcc	cag	aac	cag	gag	gtg	aaa	cca	ggc	tcc	tgt	cct	gag	tgc	1062
158	Cys	Gln	Ser	Gln	Asn	Gln	Glu	Val	Lys	Pro	Gly	Ser	Cys	Pro	Glu	Cys	
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161	cag	tcg	gcc	ggc	ccc	ttt	gag	gtc	aac	atg	gag	gag	acc	atc	tat	cag	1110
	_		-			Phe				_	-	_					
	345			-		350					355				-	360	
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						Ser											1200
171	Arg	Arg	цец	380	nr 9	Der	цуэ	тэр	385	116	пеα	Бец	AIA	390	пец	vai	
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						gga											1254
	Asp	Ser	_	Asn	Ala	Gly	Asp		ше	GIU	ьeu	Thr	_	iie	Tyr	His	
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178	Asn	Asn	Tyr	Asp	Gly	Ser	Leu	Asn	Thr	Ala	Asn	Gly	Phe	Pro	Val	Phe	
179		410					415					420					
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182	Ala	Thr	Val	Ile	Leu	Ala	Asn	His	Val	Ala	Lys	Lys	Asp	Asn	Lys	Val	
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187			~-1		445					450	-15				455		
	tee	220	aat	cad		atc	aas	asa	aac		+++	acc	acc	att		cct	1446
						Ile											1440
	SET	пys	vah	460	3111	116	GIY	GIU	ьуs 465	116	FIIG	AId	261	470	nıa		
191		٠ - ن -	+		a b	~ - `	~~~	a+ -		200	~~~	a.c.+	~~-		~~~		1404
						gaa											1494
194	ser	тте	Tyr	GIY	HIS	Glu	Asp	ше	ьys	Arg	GTA	Pro	Ala	Leu	Ala	ьeu	

RAW SEQUENCE LISTING DATE: 09/21/2004 PATENT APPLICATION: US/10/507,275 TIME: 09:32:34

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199		490		014		2,0	495			017	_,	500	-10		5	027	
	gat.		aac	at.a	ctc	t.t.a		gga	gac	cct	aac	•	aca	aaσ	t.ca	cag	1590
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	505					510	0,70		1101		515			-1-		520	
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								Ala									
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	cct	atc	agc	agg	gag	taa	acc	ttg		act	aaa	acc	cta	att	cta	act	1734
		_	_					Leu									•
215			555					560			2		565				
	qac	cqa	qqa	qtq	tqt	ctc	att	gat	qaa	ttt	qac	aaq	atq	aat	qac	caq	1782
	_	_			_			Asp	_		_	_	_		_	_	
219	-	570	•		•		575	-			-	580			-		
221	qac	aga	acc	aqc	atc	cat	qaq	gcc	atq	gag	caa	caq	aqc	atc	tcc	atc	1830
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	585					590					595			•		600	
225	tcg	aag	gct	ggc	atc	gtc	acc	tcc	ctg	cag	gct	cgc	tgc	acg	gtc	att	1878
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	Asn	Thr	Tyr	_	vai	GIU	Pro	Leu		GIN	GIU	vaı	ьeu	_	гÀг	Tyr	
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								gtc									2214
	тте	тте		AIG	гла	GIU	Arg	Val	HIS	Pro	тÀв	ьeu		GIN	мес	ASP	
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RAW SEQUENCE LISTING DATE: 09/21/2004
PATENT APPLICATION: US/10/507,275 TIME: 09:32:34

Input Set : A:\82368-11.app

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	Arg	Arg	Arg		His	Gly	His	Pro	_	Asp	Ala	Gly	Glu		His	Arg ,	
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	Ala	GIn	GIn	Asp		He	GIu	Val	Pro		Lys	Asp	Leu	Val	_	Lys	
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	_		Gln		tga	9900	cca	-gc (Jacci	Jacae	49 9¢	2000	ccgs	, ya		9900	2145
299	пси	890	0111	1110													
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	_					_		-			_		-		_	ctccct	
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/507,275

DATE: 09/21/2004 TIME: 09:32:35

Input Set : A:\82368-11.app
Output Set: N:\CRF4\09212004\J507275.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date